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Advance Bulb List -- Fall 1953

To all our gardening friends we offer this 1953 selection of the WORLD'S FINEST SPRING-FLOWERING BULBS for fall planting. More than one thousand varieties, some new, some old have just completed their blooming season here in our trial gardens. We have selected the best of them for this list. All are recommended but we have capitalized the names of some we wish especially to call to your attention.

We have included many from the scores of new varieties Holland sent us for trial this year. Among the tulips, we were much impressed by Cottage Spring Song, Darwin White Leader and Ivory Parrot. Among the many fine new daffodils, Trumpets Limone and Content and Large-cup Jeanne Desor drew much attention.

Remember, this is an ADVANCE LIST. We can stock only a small fraction of this offering for fall buyers. All new varieties and many older ones are never too plentiful. So to avoid disappointment send in your order as soon as possible after receiving this list.

FOR AN INTRODUCTION TO THE BEST AT CONSIDERABLE SAVING WE RECOMMEND:

	Per	Per
	100	1,000
EXHIBITION MAY-FLOWERING TULIP COLLECTION. Ten varieties our selection, each outstanding in its color, packed separately in equal quantities.....	\$11.	\$105.
EXHIBITION TRIUMPH TULIP COLLECTION. Medium tall, late April flowering. Ten outstanding varieties, packed separately in equal quantities.....	11.	105.
MIXED TULIPS FOR CUTTING. Same quality bulbs packed mixed.....	8.	75.
EXHIBITION NARCISSI COLLECTION. Ten fine choices in a wide range of types, packed separately in equal quantities.....	15.	140.
NATURALIZING COLLECTION. For sun or shade. Ten fine varieties of narcissi for naturalizing, packed separately in equal quantities.....	9.	85.
NATURALIZING MIXTURE. Same narcissi varieties packed mixed.....	8.	75.

Terms: All items offered in this list are sold F.O.B. New Hope, Pennsylvania, but where payment in full accompanies the order, free delivery will be made to points east of the Mississippi River. Prepayment is requested on all orders under \$5.00. Five of a variety are sold at the 10 rate, and 25 at the 100 rate. All items are offered subject to prior sale and all orders are accepted subject to safe arrival of the goods in our packing rooms.

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1929 -- first public conference

to noisefit. There is also one who is very good, who is the ADVANCE girl. However she has never been to the university, and she has never been to the city. All the girls in the class are very good, but she is the best. She is a very good student, and she is a very good person. She is a very good person, and she is a very good person.

FOR AN INTRODUCTION TO THE BEST AT CONSIDERABLE SAVING AS RECOMMENDED:

1,000	100	EXHIBITION MAY-THREEWEEK TRIUMPH COTTAGE.
1,100	110	EXHIBITION TRIUMPH COTTAGE.
1,200	120	EXHIBITION TRIUMPH COTTAGE.
1,300	130	EXHIBITION TRIUMPH COTTAGE.
1,400	140	EXHIBITION TRIUMPH COTTAGE.
1,500	150	EXHIBITION TRIUMPH COTTAGE.
1,600	160	EXHIBITION TRIUMPH COTTAGE.
1,700	170	EXHIBITION TRIUMPH COTTAGE.
1,800	180	EXHIBITION TRIUMPH COTTAGE.
1,900	190	EXHIBITION TRIUMPH COTTAGE.
2,000	200	EXHIBITION TRIUMPH COTTAGE.

<u>BREEDER TULIPS</u>	Tall, May-flowering	Per 10	Per 100
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Bacchus.	Dark purple with slaty sheen.....	1.20	10.
BARODA.	Uniform color of crushed raspberry inside and out.....	1.30	11.
Blois Van Amstel.	Violet-blue with lighter edge.....	1.20	10.
Bonnie Prince.	Egg-shaped bloom of rosy lilac.....	1.30	11.
BRONZE GLORY.	Dark oak stain, flushed plum.....	1.40	12.
Denver.	Huge flower of blue-lilac; lighter at edge.....	1.30	11.
Dillenberg.	Orange overlaid with rose; edged yellow-bronze.....	1.00	9.
Dixie Sunshine.	Lilac suffused bronze; edged buff-yellow.....	1.40	12.
Don Hugo.	Rich chestnut brown.....	1.30	11.
Georges Grappe.	A truly enormous flower of blue-heliotrope.....	1.20	10.
Goal Para.	Long flower of deep orange-rose, faintly flushed bronze.....	1.30	11.
INDIAN CHIEF.	Deep mahogany-bronze with purple lights.....	1.30	11.
Jessy.	Coffee brown flushed chestnut-purple.....	1.20	10.
Karl May.	Crimson scarlet, shaded orange.....	1.40	12.
Kathleen Fruxton.	Old rose with amber lights, edged bronze.....	1.40	12.
Louis XIV.	Huge globular flower of violet edged bronze.....	1.30	11.
MAHATMA.	Egg shaped flower of chestnut-red with Ashy Bloom.....	1.40	12.
Manitou.	Copper red, flushed crimson. Tall, graceful stem.....	1.30	11.
Morocco Beauty.	Uniform rich chestnut-mahogany.....	1.50	13.
Mount Royal.	Warm violet edged tawny bronze.....	1.40	12.
Mrs. Beecher Stowe.	Bright violet-purple. Strong straight stem....	1.30	11.
Olson's Favorite.	Blood orange.....	1.30	11.
Orange Delight.	Golden amber warmly flushed rose.....	1.30	11.
ORIENTAL.	Soft ecru delicately flushed lilac.....	1.30	11.
Oswego.	Huge flower of amber-rust flushed rosy orange.....	1.30	11.
PAPAGO.	Deep copper-orange, flushed dark rose.....	1.40	12.
Penelope.	Blend of buff, bronze and lavender.....	1.20	10.
PRUNELLA.	Bright plum-violet, edged grey-lilac.....	1.60	14.
Southern Cross.	Bright cadmium yellow, brushed lilac.....	1.30	11.
Stephanie.	Lilac-gray with rosy cast.....	1.20	10.
Tantalus.	Cafe-au-lait suffused with lavender.....	1.30	11.

COTTAGE and COTTAGE-HYBRID TULIPS Tall, May-flowering

Anna Pavlowna.	Enormous globular white with black anthers.....	1.30	11.
BACCHANALIA.	Crushed raspberry.....	1.30	11.
Belle Jaune.	Deep golden yellow.....	1.00	9.
Belray.	Large, beautiful flower of creamy primrose. Late.....	1.20	10.
Carrara.	Bowl-shaped flower of snow white with yellow anthers.....	1.00	9.
Chappaqua.	Tall, enormous flower of vivid rose-pink.....	1.40	12.
CHINESE IVORY.	Huge, egg-shaped flower of creamy white with black anthers. Long-lasting bloom.....	1.40	12.
Conde Nast.	Pale primrose developing a rose blush.....	1.20	10.
Cote d'Ivoire.	Egg-shaped flower of rich ivory. Very late.....	1.40	12.
Cote d'Or.	Warm primrose, neatly edged crimson.....	1.40	12.
Dido.	Old favorite of salmon rose, edged amber.....	1.00	9.
Fiery Cross.	Deep scarlet-red. Wide-open, pointed petals.....	1.70	15.
Geisha.	Ashes of roses. Long flower.....	1.30	11.
GENERAL DE LA REY.	Lively rose with tones of apricot and amber.....	1.40	12.

（三）在本屆全國人民代表大會上，我們要進一步貫徹落實黨的政策和決策。

COTTAGE TULIPS (Continued)

		Per 10	Per 100
Golden Measure.	Chrome yellow. Inside sulphur yellow. Fragrant.....	1.20	10.
Golden Nugget.	Golden yellow, outside flushed rose.....	1.30	11.
GOOD GRACIOUS.	Bright salmon-apricot shaded pink.....	1.30	11.
GRAPEFRUIT.	Huge square-cup of creamy primrose.....	1.70	15.
G. W. LEAK.	Extremely vivid geranium lake.....	1.30	11.
IVORY GLORY.	Huge, egg-shaped flower of creamy white.....	1.40	12.
Jane Aldred.	Creamy primrose.....	1.00	9.
Majestic.	Huge, blazing scarlet. Outside rosy scarlet.....	2.20	20.
Marjorie Bowen.	Soft salmon-rose with amber lights.....	1.00	9.
Mayflower.	Immense flower of crimson-scarlet flushed rose. Early.....	1.40	12.
Mimosa.	Creamy yellow, delicately brushed carmine.....	1.20	10.
Mongolia.	Huge bowl-shaped flower of pure primrose.....	1.30	11.
MRS. J. T. SCHEEPERS.	Immense egg-shaped flower of chrome-yellow.....	1.30	11.
Mt. Erebus.	Tall flower of snowy whiteness with yellow anthers.....	1.30	11.
Ossie Oswalda.	Creamy white warmly suffused rose.....	1.00	9.
Persian Beauty.	Warm rose edged soft amber.....	1.40	12.
Picotee.	White with carmine border which suffuses flower. Pointed.....	1.00	9.
Queen of Spain.	Creamy primrose with rose tinted edge. Late.....	1.30	11.
Remus.	Cinnamon brown flushed rose.....	1.20	10.
Rosabella.	Light rose pink with silver edge.....	1.30	11.
ROSY WINGS.	Long, loose flower of silky, salmon-rose.....	1.40	12.
Salmon Triumph.	Bright salmon pink.....	1.40	12.
SKY.	Opens white with lilac-blue flush which suffuses flower. Tall, large blossom.....	1.50	13.
SMILING QUEEN.	Glowing cerise-pink with lighter edge. Very tall.....	1.60	14.
SPRING SONG.	An enormous, bright, rosy scarlet blossom borne on a medium tall stem.....	3.00	27.
TREASURE ISLAND.	Outside silver yellow, inside warm primrose. Finest yellow.....	3.00	27.
Viridiflora Praecox.	Apple green edged pale yellow.....	6.00	55.
Wall Street.	Outside light yellow, inside golden yellow.....	1.00	9.

LILY-FLOWERING TULIPS

Tall, May-flowering. Long, pointed recurved petals

ARTIST.	An exotic flower of unusual coloring. Outside petals green, bordered by amber-rose.....	4.00	35.
Astor.	Soft amber-orange, shaded rose and edged amber-buff.....	1.30	11.
Captain Fryatt.	Stunning shade of deep garnet.....	1.40	12.
CHERAMY.	Creamy pink with lilac and amber tones. Early.....	2.70	25.
CHINA PINK.	Delicate flesh pink.....	2.00	18.
Crabeth.	Uniform soft, rose-pink.....	1.50	13.
DON JOSE.	Tall, large, deep red. Best red Lily-flowering.....	1.50	13.
Elegans Alba.	White with picotee edge of rose.....	1.40	12.
Fascinating.	Pale primrose-yellow; petal edges ruffled.....	1.30	11.
Gisela.	Warm rose-pink of great substance.....	1.50	13.
Golden Duchess.	Deep golden yellow.....	1.30	11.
Golden Emblem.	Same color as Golden Duchess but earlier.....	1.30	11.
Greta.	Orange-scarlet with purple bloom on outer petals.....	1.20	10.
Linette.	Rich, imperial purple.....	1.40	12.

1. *Chlorophytum comosum* L. (Liliaceae) 2. *Clivia miniata* (L.) Sweet (Amaryllidaceae)

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LILY-FLOWERING TULIPS (Continued)

Per 10	Per 100
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Lothair. Pale primrose passing to rich ivory. Early.....	1.30	11.
Marthe. Radiant cherry-rose.....	1.30	11.
MAYTIME. Large flower of clear deep violet.....	2.00	18.
Paola. Deep warm orange.....	1.30	11.
Philemon. Long, tapering petals of uniform creamy yellow.....	1.40	12.
Rhodes. Clear soft rose-pink.....	1.30	11.
Sidonie. Bright royal purple. Uniform color.....	1.30	11.
Stanislaus. Bright copper-orange. Very early.....	1.30	11.
The Bride. Pure white. Neat flower.....	1.30	11.
White Cross. Wide-open flower of snow white; yellow anthers.....	1.30	11.
White Duchess. White with green markings and ruffled petals.....	1.30	11.
WHITE TRIUMPHATOR. Huge, open flower of pure white. Star-shaped..	2.00	18.

DARWIN TULIPS Tall, May-flowering

Adorable. Creamy rose with deep rose blush.....	1.30	11.
ALICE TIPLADY. Luminous rosy apricot of unusual beauty.....	2.00	18.
American Beauty. Soft rose pink with lighter edge.....	1.60	14.
American Flag. White feathered red. Inside base of deep blue.....	1.30	11.
Annie Laurie. Bright apricot of medium size.....	1.20	10.
ANNIE SPEELMAN. Long flower of creamy white.....	1.50	13.
ARABIAN NIGHTS. Tall flower of deep chestnut-red.....	1.70	15.
Aristocrat. Long flower of lilac-rose, edged silver rose.....	1.40	12.
ATLANTIC. Large, triangular-shaped blossom of glowing deep purple	1.70	15.
BLACK EAGLE. Dark glossy blue-purple.....	1.20	10.
BLACK GIRL. Black satin. Stunning.....	1.30	11.
Caroline Testout. Soft rose-pink.....	1.40	12.
Cerberus. Large bloom of deep lilac, lighter at edge.....	1.40	12.
Charles Needham. Dazzling scarlet, flushed carmine.....	1.30	11.
Chinatown. Vivid plum-purple. Three-cornered shape.....	2.00	18.
Commodore. Large bowl-shaped creamy white with yellow anthers.....	1.40	12.
Cum Laude. Rosy violet maturing to blue violet. Waxy texture.....	1.30	11.
Deborah. Soft lilac-rose with lighter edge.....	1.40	12.
Demeter. Reddish purple maturing to royal purple.....	1.40	12.
DORY OVERALL. Huge bloom of bright rosy violet.....	1.40	12.
Dresden China. Shell pink on creamy background.....	1.30	11.
DUKE OF WELLINGTON. Large flower of gleaming white.		
Yellow anthers.....	1.30	11.
Eclipse. Rich blood-red.....	1.30	11.
EGGINK'S IDEAL. Bright rose, edged lighter. Tremendous substance....	2.00	18.
ELCYONE. Warm, glowing raspberry-rose. Good size and substance.	1.50	13.
ELIZABETH ARDEN. Huge blossom of glowing salmon-rose.		
Cast iron stem.....	2.70	25.
Erfordia. Clear warm rose, edged silver-buff.....	1.30	11.
Eunice. Bright rose-pink.....	1.30	11.
Fire Robe. Vivid scarlet with blackish bloom. Huge, bell-shaped..	1.40	12.
FLORENCE NIGHTINGALE. Large, wide-open flower of brilliant ver-		
million-scarlet. Outer petals pointed and slightly recurved.....	1.80	16.
Garden Cinderella. Bright carmine-rose. Early. Very fragrant....	1.40	12.

DARWIN TULIPS (Continued)

	Per 10	Per 100
GEORGE H. DICKS. Bright rose. Huge, tall flower of great substance.....	1.30	11.
GLACIER. Pure creamy white with yellow anthers. Magnificent long flower.....	1.30	11.
Golden Age. Bright yellow, suffused with soft orange at edge.....	1.30	11.
Golden Smile. Pale yellow, inside primrose with black anthers. Oval flower with pointed petals.....	2.00	18.
HELEN GAHAGAN. Pale yellow, passing to creamy white.....	1.40	12.
His Lordship. Large bloom of bright, silky scarlet on tall stem.....	1.80	16.
Jeanne d'Arc. Large, bowl shaped blossom. White with yellow anthers.....	2.00	18.
J. K. Lilly. Vivid cerise. Tall robust grower.....	1.40	12.
JOHANNESBURG. Huge oval bloom of uniform egg-plant purple. Very long-lasting flower on strong, tall stem.....	3.30	30.
Kennard. Dark purple with distinct slaty-blue tone.....	1.40	12.
King Mauve. Lilac-mauve, shading to silver at edge.....	1.30	11.
Kriemhilde. Long flower of pure white with yellow anthers.....	1.20	10.
La France. Light rose-pink.....	1.30	11.
LITTLE QUEEN BESS. Large oval bloom of soft rosy lilac.....	1.60	14.
Madame Butterfly. Light lavender with violet tones.....	1.00	9.
MAGNETO. Large, tall tulip of clear rose-pink with no blue tone.....	1.40	12.
Mahogany. Rich raisin.....	1.30	11.
MARGAUX. Deep burgundy-rose.....	1.00	9.
Mark Anthony. Rich wine-purple. Same color inside and out.....	1.50	13.
Masterpiece. Large globular flower of bright scarlet.....	1.20	10.
Modoc. Reddish violet with silver edge. Great substance.....	5.00	45.
Mr. Van Zyl. Clear rose-pink with lighter edge.....	1.30	11.
NEW HOPE. Clear tone of violet-blue.....	1.30	11.
Niphетос. Very long, large flower of pale primrose passing to cream.....	1.30	11.
Notre Dame. Deep raspberry-rose.....	1.30	11.
OLD ROSE. Light rose, delicately suffused old rose.....	1.40	12.
PANDION. Bright blue-violet with silver edge. Very early.....	1.40	12.
Peter Barr. Deep red with blackish sheen on outer petals.....	1.40	12.
Pride of Zwanenberg. Vivid rose, shaded lighter at edge.....	1.30	11.
Purple Prince. Clear bright purple.....	1.70	15.
Queen of the Night. Large globular flower of blackish maroon.....	1.00	9.
SAMARINDA. Bright golden yellow. Large open flower on tall stem..	2.70	25.
Scotch Lassie. Bright rosy violet.....	1.00	9.
Starlight. Creamy primrose, inside canary-yellow.....	1.40	12.
Sunkist. Deep golden yellow.....	1.00	9.
The Bishop. Clear deep violet. Late.....	1.30	11.
The Peach. Bright rose-pink with broad creamy base.....	1.00	9.
TORGAU. Pale lilac-rose. Huge, bell-shaped flower with pointed petals.....	2.50	22.
Tubergen's Glory. Bright salmon-rose.....	1.30	11.
White Giant. Tall, bowl-shaped flower of snow white. Black anthers.....	1.30	11.
WHITE LEADER. Great new white. Huge, bell-shaped flower of pure white.....	2.70	25.
William Penn. Glowing crimson, inside crimson-scarlet.....	1.40	12.

	<u>DOUBLE LATE TULIPS</u> Tall, May-flowering	Per 10	Per 100
Apotheose.	Full double of soft rose-pink.....	\$2.00	\$18.
Borgia.	Deep amaranth-red, edged gold.....	2.70	25.
Caballa.	Bright rose-red, broadly edged white.....	1.80	16.
CLARA CARDER.	Full double of clear, warm rose.....	1.60	14.
Eros.	Very full flower of old rose.....	1.50	13.
GRANDEUR.	Huge double blossom of deep maroon, edged gold.....	2.00	18.
GRAND NATIONAL.	Appealing color of pale yellow. Tall stem.....	3.00	27.
HERMIONE.	Large, robust flower of the most delicate lilac-rose color.....	2.00	18.
Ida van Zanten.	Uniform golden yellow.....	2.00	18.
JOSEPH ISRAELS.	Large flower of uniform carmine-red.....	2.00	18.
Lilac Queen.	Warm blue-lilac, lighter at the edge.....	2.00	18.
MT. TACOMA.	Large, peony-like flower of gleaming white.....	1.30	11.
Orange Triumph.	Pure, bright orange.....	1.80	16.
Ruysdaels.	Semi-double. Soft lilac-rose on cream background.....	2.00	18.
SYNOPE.	Deep rose-red, edged silver.....	2.00	18.
TORCH.	Deep scarlet with a tone of bronze.....	2.00	18.
Uncle Tom.	Glossy maroon.....	1.60	14.

MULTIFLORA TULIPS Tall, May-flowering

Odette.	Cluster-flowering yellow, suffused deep rose.....	1.50	13.
Rose Mist.	Cluster-flowering white, suffused warm rose.....	1.50	13.
Wallflower.	Cluster-flowering maroon with yellow base.....	1.40	12.

PARROT TULIPS Tall, May-flowering. Petals laciniated

ADMIRAL DOORMAN.	Enormous bowl-shaped flower of glowing scarlet-rose.....	1.80	16.
BLACK PARROT.	Dark purple-maroon.....	2.70	25.
Blue Parrot.	Beautiful violet blue. Long lasting.....	1.00	9.
Fantasy.	Bright salmon pink with green sheen on outer petals.....	1.00	9.
FARRADAY.	Large flower of the palest creamy pink imaginable.....	2.00	18.
Firebird.	Red sport of Fantasy. Deep carmine-rose.....	1.30	11.
Gadelan.	Deep violet with green sheen.....	1.40	12.
Gemma.	White with faint soft blush. Very early. Short.....	1.30	11.
IVORY PARROT.	Huge blossom on tall stem of uniform ivory white.....	9.50	85.
Marcia.	Reddish violet. Short and very early.....	1.30	11.
Orange Favorite.	Warm bronzy orange with lighter edge.....	1.20	10.
ORANGE PARROT.	Dark red-orange flushed bronze. Great substance....	1.70	15.
PARROT WONDER.	Huge Parrot of clear cherry-red.....	2.00	18.
Sunshine.	Golden-yellow with green sheen on outer petals.....	1.30	11.
TEXAS GOLD.	Large bloom of clear lemon-yellow.....	1.80	16.
Therese.	Large open flower of vivid carmine-rose.....	1.30	11.
Violet Queen.	Large, bowl-shaped flower of light violet.....	1.40	12.

MENDEL AND TRIUMPH TULIPS Medium tall. Late April-flowering

Airy.	Clear rose-pink of good substance.....	1.30	11.
ALL ROUND.	Huge, egg-shaped bloom of deep scarlet-red.....	1.30	11.

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MENDEL AND TRIUMPH TULIPS (Continued)

Per	Per
10	100

Bandoeng.	Large bloom of deep maroon-red, edged gold.....	\$1.00	\$9.
BLIZZARD.	Snow white flower with ruffled petals.....	2.50	22.
Bruno Walter.	Apricot-rose flushed cinnamon-bronze.....	1.20	10.
Cassini.	Vivid scarlet red.....	1.00	9.
Dandy.	Tall, large blossom of uniform lilac-rose.....	1.00	9.
Golden Joy.	Pure chrome yellow.....	1.30	11.
HIGHLANDER.	Vivid carmine-rose. Huge blossom.....	1.20	10.
Hobby.	Pale, moonlight-yellow. Good size and substance.....	1.30	11.
Ismary.	Bright salmon-rose.....	1.30	11.
JOHN NIEUWENHUIS.	Long, egg-shaped bloom of pure chrome yellow.....	1.40	12.
Kansas.	Strong growing white.....	1.00	9.
MODERN TIMES.	Violet shading to lavender.....	2.50	22.
Orange Splendor.	Large flower of brilliant crimson-orange.....	2.00	18.
President von Hindenberg.	Radish-red edged silver.....	1.20	10.
Queen of the North.	Bright rose with broad base of white.....	1.20	10.
ROYAL GUARD.	Striking flower of deep red, edged warm gold.....	1.60	14.

SINGLE EARLY TULIPS Short, April-flowering

Apricot Yellow.	Primrose, flushed soft carmine.....	1.00	9.
Couleur Cardinal.	Crimson red with purple bloom.....	1.20	10.
De Wet.	Yellow-orange, maturing to deep orange.....	1.00	9.
Diana.	Pure white.....	1.00	9.
Hobbema (Le Reve).	Lilac-rose, flushed buff.....	1.30	11.
Keizerskroon.	Bright scarlet with broad edge of golden yellow.....	1.30	11.
Madame Gevers.	Wide open flower of soft primrose.....	1.00	9.
Pink Beauty.	Vivid cherry rose with creamy white base.....	1.80	16.
Prince Carnaval.	Bright scarlet, flamed yellow.....	1.40	12.
Rising Sun.	Rich golden yellow.....	1.30	11.

DOUBLE EARLY TULIPS Short, April-flowering

Mr. van der Hoeff.	Very large, full flower of clear primrose.....	1.30	11.
Murillo.	Creamy white stippled rosy pink.....	1.30	11.
Peachblossom.	Rosy pink.....	1.30	11.
Scarlet Cardinal.	Deep red.....	1.50	13.
Schoonoord.	Very full, pure white.....	1.30	11.
Tearose.	Soft primrose suffused with rose.....	1.30	11.

SPECIES TULIPS

Batalini.	Small, neat flower of clear lemon-yellow. Late April-flowering.....	1.80	16.
Clusiana. (The Candystick Tulip).	Outer petals striped cherry red, inside white. May-flowering.....	1.00	9.
Cornuta. (Stenopetala)	Tall flower of tawny red and gold. Very narrow, long and curiously twisted petals. May-flowering.....	1.40	12.
Dasystemon.	Very dwarf flower of creamy white with deep yellow centers inside. Cluster-flowering. April-flowering.....	1.40	12.

Montgomery, 1970; Pfeiffer, 1970; Pfeiffer and Hause, 1970).

REFERENCES

SPECIES TULIPS (Continued)

	Per	Per
	10	100

Eichleri. Dazzling scarlet with black inside base.		
April-flowering.....	\$.90	\$ 8.
Fosteriana Cantate. Huge bloom of brilliant vermillion-scarlet. Bright green foliage. Later than Red Emperor.....	1.70	15.
Fosteriana Purissima. Huge creamy white. The "white" Emperor.....	4.00	35.
Fosteriana Red Emperor. Enormous flower of vivid scarlet with black inside base. Late April-flowering.....	1.60	14.
Humilis. Lilac. Small flower on eight-inch stem.....	4.00	35.
Kaufmanniana Bellini. Soft rose, edged bisque. April-flowering.....	4.00	35.
Kaufmanniana Caesar Franck. Orange-yellow brushed crimson.		
March-flowering.....	2.50	22.
Kaufmanniana Elliott. Primrose brushed warm carmine. Inside cream. April-flowering.....	2.70	25.
Kaufmanniana Fritz Kreisler. Outside cream, flushed soft apricot-rose. Inside cream with strawberry-pink base.....	6.00	55.
Kaufmanniana Gaiety. Creamy white brushed light carmine. Inside white. April-flowering.....	2.00	18.
Kaufmanniana Scarlet Elegans. Uniform deep scarlet.		
April-flowering.....	2.70	25.
Kaufmanniana Shakespeare. Warm apricot-orange.....	2.70	25.
Kaufmanniana Sweelinck. Chartreuse-yellow with outer petals lightly brushed maroon.....	2.70	25.
Kaufmanniana The First. Cream flushed vivid carmine-rose. Inside cream. April-flowering.....	2.70	25.
Kaufmanniana Vivaldi. Golden bisque deeply flushed rose.		
April-flowering.....	2.00	18.
Kolpakowskiana. Tiny blossoms of golden yellow flamed red.		
May-flowering.....	1.60	14.
Linifolia. Small flowers of silky carmine.....	2.00	18.
Marjoletti. Soft primrose, finely edged carmine. May-flowering.....	.90	8.
Praestans. Fusilier. Brilliant vermillion florets in clusters.		
April-flowering.....	2.50	22.
Saxatilis. Delicate lilac with yellow center. April-flowering.....	1.60	14.
Sylvestris. Pure, fragrant yellow. Excellent for naturalizing. April-flowering.....	.90	8.
Turkestanica. Cluster-flowering. Five to eight tiny florets on a stem. Inside white, outside cinnamon-brown. March-flowering.....	.90	8.

NARCISSI OR DAFFODILSTRUMPET NARCISSIAll Yellow:

AEROLITE. Primrose perianth with long trumpet of deeper yellow.....	1.70	15.
British Monarch. Huge overlapping primrose perianth with long trumpet of deeper tone widely expanded at edge.....	1.70	15.
BURGOMESTER GOVERNEUR. Flat perianth of warm yellow with large, smooth trumpet of perfect form. Late.....	2.20	20.
DIOTIMA. Enormous flower with star shaped perianth and long trumpet widely frilled at mouth. Uniformly golden yellow.....	5.00	45.

19. *Leucosia* *leucostoma* (Linné) *Leucosia* *leucostoma* (Linné)

18. 1. 1967. 100% of the seeds were germinated.

NARCISSI OR DAFFODILS (Continued)

TRUMPET NARCISSI

	<u>Per 10</u>	<u>Per 100</u>
<u>All yellow: (Continued)</u>		
Garden Queen. Flat, overlapping perianth of warm primrose, with wide spread butter-yellow trumpet heavily frilled at brim.....	\$2.50	\$22.
Golden Harvest. Rich golden yellow perianth and trumpet.....	1.90	17.
King Alfred. Uniform golden yellow. Large and free-blooming. Early.....	1.60	14.
LIMONE. Fascinating pale yellow trumpet. Perianth is lemon. Trumpet is pale sulphur with frilled, recurved brim of lemon.....	5.00	45.
Lord Nelson. Huge bloom with perianth of deep primrose and trumpet of golden yellow, widely expanded and frilled at brim....	2.00	18.
PEKING. Uniform pale citron. Medium sized perianth with broad trumpet fluted to base. Charming color.....	Each \$2.00	
Unsurpassable. Large star-shaped golden perianth, with golden trumpet frilled at brim. Huge, imposing garden flower.....	2.00	18.
<u>Bi-color:</u>		
CONTENT. Flat white perianth of perfect form. Long narrow trumpet of chartreuse-yellow.....	Each \$2.00	
Music Hall. Broad petals of sulphur-white frame a long, deep yellow trumpet which has a wide, frilled and recurved brim.....	1.90	17.
PATRIA. Broad perianth of shimmering white, long, tubular trumpet of lemon-yellow, beautifully fluted and flanged at brim. Very long blooming. New.....	2.70	25.
PRESIDENT LEBRUN. Gleaming white perianth contrasts vividly with huge trumpet of a yellow so bold and deep as to suggest buff.....	2.20	20.
Spring Glory. Snowy white perianth with long, striking trumpet of golden yellow.....	2.00	18.
<u>All White:</u>		
BEERSHEBA. A magnificent snowy white daffodil. Its long, fluted trumpet is beautifully frilled at edge.....	2.50	22.
CANTATRICE. Star-shaped, flat perianth with long, pointed, slightly separated segments. Long, tubular milk-white trumpet with bell-shaped mouth. Perfect form and refinement for show.....	Each \$3.00	
Imperator. Perianth pure white and beautiful wide-open trumpet of cream.....	1.80	16.
Mrs. E. H. Krelage. Perianth of white, tubular trumpet of cream attractively rolled at brim.....	1.80	16.
MT. HOOD. Broad perianth of purest white, standing at right angles to the large, perfectly formed white trumpet. New.....	3.50	32.
Romaine. Large flower of uniform creamy-white. Long trumpet slightly flared at brim.....	2.50	22.
Roxane. Broad, pure white perianth and large spreading trumpet of creamy white, frilled at brim.....	2.20	20.

LARGE-CUPPED NARCISSI

With Yellow Perianth:

Adventure. Pale primrose perianth. Large golden crown almost a trumpet.....	1.80	16.
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(Continued from page 100)

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1968-1970
1971-1973
1974-1976

(1976-80) 1981(82) 1983

LARGE-CUPPED NARCISSI (Continued)

	Per 10	Per 100
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With Yellow perianth: (Continued)

Carlton. Broad overlapping perianth with clear yellow, giant crown, richly frilled at edge. One of first daffodils to open and last to go.....	\$1.40	\$12.
CAVALLERO. Broad flat perianth with spoon-shaped petals. Golden crown with vivid orange edge, frilled at brim.....	3.00	27.
CROCUS. A large daffodil of uniform golden yellow color and perfectly formal proportions.....	5.00	45.
Dillenberg. Deep yellow perianth with vivid orange-red crown.....	1.70	15.
Eldorado. Perianth of pale yellow. Large, wide-open crown of deep yellow, edged orange.....	1.30	11.
FORTUNE. Broad primrose perianth with bold crown delicately edged red. Great height and size.....	1.80	16.
Havelock. Tall flower of uniform chrome yellow.....	1.30	11.
Jalna. Broad formal perianth of deep yellow frames golden crown edged vivid red. Very early.....	1.40	12.
JEANNE DESOR. Wide perianth of pale primrose with saucer-shaped, frilled crown of deep yellow.....	4.00	35.
MAJARDA. Light primrose perianth. Wide, heavily crested crown, orange at brim, golden yellow to base.....	1.80	16.
Monte Carlo. Broad perianth and wide crown of deep yellow.....	1.40	12.
Netha. Broad, primrose perianth with flaring petals. Large, cup-shaped crown, deep orange at brim, yellow to base.....	1.70	15.
Orange Glow. Perianth of light yellow with heavily frilled crown edged orange.....	1.40	12.
Reginald Dixon. Broad golden yellow perianth. Large, saucer-shaped cup of chrome yellow widely margined crimson.....	1.90	17.
RUSTOM PASHA. Broad perianth of deep, chartruese-yellow. Cup is vivid orange with yellow base.....	5.00	45.
Scarlet Elegans. Perianth of deep yellow with yellow cup bordered brilliant scarlet.....	1.30	11.
WODAN. Broad overlapping perianth of light primrose. Huge, flat, heavily crested crown, yellow with orange brim.....	2.70	25.
YELLOW POPPY. Formal perianth of soft primrose, with primrose cup, delicately frilled and edged apricot.....	1.30	11.

With White Perianth and Colored Crown:

BROOKVILLE. White perianth. Heavily crested, flat crown of silver-yellow. Tall stem.....	2.00	18.
DAISY SCHAEFFER. Broad, overlapping perianth of pure white with large primrose crown passing to snow white at base.....	2.00	18.
DICK WELLBAND. Spectacularly beautiful flower with snow white perianth. Large, nearly flat crown of bright scarlet	1.60	14.
DUKE OF WINDSOR. White perianth. Heavily crested crown opens orange then turns to warm primrose. Huge show flower.....	3.00	27.
E. H. WILSON. White perianth with large, wide crown edged ivory, creamy yellow to base.....	1.70	15.
Fancheon. Broad, formal, creamy white perianth. Very wide, flat crown is apricot-orange at brim, lemon-yellow to base.....	2.00	18.
Francisca Drake. Pure white perianth of great expanse, slightly recurved to expose golden crown edged orange.....	1.30	11.

LARGE-CUPPED NARCISSI (Continued)

	Per 10	Per 100
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<u>With White Perianth and Colored Crown:</u> (Continued)		
Grayling. Snow white perianth with short tubular crown of ivory, margined white.....	\$1.80	\$16.
John Evelyn. White perianth with wide, densely frilled crown of golden yellow.....	1.40	12.
LORD TEDDER. White perianth. Crested crown of creamy-yellow flushed apple-green. Very late.....	3.00	27.
Loveneest. White perianth with creamy crown tinged pink	1.70	15.
Manco. Broad white perianth. Flat, crested crown of bright yellow, suffused orange.....	2.50	22.
Mary Blonck. Snow white, slightly recurved perianth. Saucer-shaped crown of lemon-yellow with orange-red brim.....	1.80	16.
MILK AND CREAM. Broad, flat perianth of icy white. Wide, crested crown of ivory-beige is faintly tinted blush.....	9.50	85.
Mrs. R. O. Backhouse. The original "Pink Daffodil." Creamy-white perianth. Crown opens apricot-tan, turns shell pink.....	1.90	17.
Orange Monarch. Wide, pure white perianth. Huge, saucer-shaped crown is orange at brim, orange-yellow to base.....	2.70	25.
SCARLET LEADER. Perfectly flat, white perianth with large, ruffled, deep red crown. Show flower.....	2.00	18.
SELMA LAGERLOF. Broad, icy-white perianth. Wide crown of greenish yellow with broad margin of bright apricot-orange.....	1.90	17.
SEMPER AVANTI. Broad, creamy-white perianth frames a wide crown of soft primrose broadly margined orange-red.....	1.60	14.
SMARAGD. Large white perianth. Wide, saucer-shaped and heavily crested crown of pure lemon-yellow.....	1.80	16.
Solaro. Snow white perianth with large cup-shaped crown of deep yellow.....	1.70	15.
Tunis. Milk white perianth. Large, cup-shaped crown opens chrome then turns ivory with rolled brim of copper.....	1.80	16.

NEW "PINK" DAFFODILSWhite Perianth and Pink-Tinted Crown:

BIARRITZ. Formal perianth. Frilled crown buff-pink at brim, light rose to base.....	2.70	25.
CHAMPAGNE. Flat perianth with huge rounded petals. Heavily frilled crown opens buff-apricot turns bisque, suffused rose.....	8.50	75.
LADY BIRD. Wide perianth with long, trumpet-shaped crown which opens golden apricot then turns rose-pink. Deepest pink.....	4.00	35.
LOUISE DE COLIGNY. Flat white perianth. Neat cup-shaped crown of salmon-buff, edged bright apricot. Fragrant.....	Each \$1.00	
MENTONE. Very broad perianth with wide, crinkled crown which opens buff and becomes pale pink with rosy brim.....	5.00	45.
PINK FANCY. Wide cup of lemon with copper-pink brim.....	2.00	18.
PINK FAVORITE. Wide frilled crown of apricot-rose.....	3.00	27.
PINK GLORY. Neat white perianth of formal proportions. Broad, flanged crown turns soft rose. Show flower.....	8.50	75.
PINK RIM. Large crown of pale lemon with rose rim.....	4.00	35.
PINK SELECT. Broad crown maturing shell pink. Late.....	3.30	30.

2. *Constitutive* *transcriptional* *regulation* *in* *Escherichia* *coli*

NEW "PINK" DAFFODILS (Continued)

Per	Per
10	100

White Perianth and Pink-Tinted Crown: (Continued)

ROSY SUNRISE. Pure white perianth with flat, overlapping petals.

Buff-apricot crown, with deep rose brim. Perfect show form.....\$9.50 \$85.
SIAM. Earliest of new pinks. Wide perianth with huge, irregular
crown which opens primrose-apricot then turns flesh pink..... 3.00 27.With White Perianth and White Crown:JULES VERNE. Broad white perianth. Huge, long crown of cream is
recurved and frilled at the brim..... 8.50 75.With Yellow Perianth and White Crown:BINKIE. Famous variety of "reverse" coloring. Opens uniform
pale citron, but crown at maturity turns oyster white..... Each \$2.00SMALL-CUPPED NARCISSIWith Yellow Perianth:Afterglow. Creamy yellow perianth. Primrose crown, edged
soft orange..... 1.60 14.ARANJUEZ. Formal, light primrose perianth with large
saucer-shaped crown, orange-crimson at edge yellow to base..... 1.60 14.Mangosteen. Broad perianth of deep primrose with wide,
shallow cup of vivid orange-red..... 1.40 12.

Spring Beauty. Warm chrome yellow with vivid orange cup..... 1.40 12.

With White Perianth and Colored Cup:

Bright Beauty. Pure white perianth. Neat crown of vivid scarlet.. 1.40 12.

Diana Kasner. White perianth with lemon cup edged crimson..... 1.30 11.

HADES. Broad white perianth with vivid cup of pure cherry-red.... 1.60 14.

KANSAS. Broad white perianth with charming crown of apple
green margined soft apricot-orange..... 1.80 16.

Lady Kesteven. Snow white perianth with brilliant cherry crown.... 1.80 16.

Pomona. Show flower with formal, snow white perianth. Small
cup is apricot orange at brim, greenish yellow to base..... 1.60 14.

St. Louis. Intense white perianth with orange-scarlet cup..... 1.90 17.

With White Perianth and White Cup:POLAR ICE. Choice flower with oyster white perianth and tiny,
fluted cup of creamy white with greenish center..... 2.70 25.DOUBLE NARCISSICHEERFULNESS. Charming cluster of double white florets with
primrose centers. Fragrant and late..... 1.30 11.

Daphne. Pure white semi-double resembling fresh gardenia..... 1.40 12.

Inglescombe. Carnation-flowered double of uniform lemon-yellow.... 1.70 15.

INSULINDE. Wide double, lemon yellow petals with center
petals of vivid orange-red..... 1.60 14.Irene Copeland. Large, full double with alternating white
and creamy white petals. Early..... 1.60 14.

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THE CLOTHESLINE OF THE PUPILS' MIND

AS SOON AS I WALKED INTO THE CLASSROOM, I SAW THAT THE CHILDREN HAD BEEN BUSY. THEY HAD DRAWN AND COLOURED PICTURES OF THEMSELVES. THESE PICTURES WERE HUNG UP ON A LINE WHICH HAD BEEN TIED ACROSS THE ROOM. AS I LOOKED AT THE PICTURES, I SAW THAT THE CHILDREN HAD DRAWN THEM IN A VARIOUS WAY.

AS I WALKED AROUND THE ROOM, I SAW THAT THE CHILDREN HAD DRAWN THEM IN A VARIOUS WAY. THE PUPILS HAD DRAWN THEM IN A VARIOUS WAY. THE PUPILS HAD DRAWN THEM IN A VARIOUS WAY.

AS I WALKED AROUND THE ROOM, I SAW THAT THE CHILDREN HAD DRAWN THEM IN A VARIOUS WAY. THE PUPILS HAD DRAWN THEM IN A VARIOUS WAY. THE PUPILS HAD DRAWN THEM IN A VARIOUS WAY.

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WHAT ARE PUPILS?

AS I WALKED AROUND THE ROOM, I SAW THAT THE CHILDREN HAD DRAWN THEM IN A VARIOUS WAY. THE PUPILS HAD DRAWN THEM IN A VARIOUS WAY. THE PUPILS HAD DRAWN THEM IN A VARIOUS WAY.

<u>DOUBLE NARCISSI</u>	(Continued)	Per 10	Per 100
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Mary Copeland. Double white with orange-red center petals.....	1.90	17.
Mrs. William Copeland. Large, pure white double.....	4.50	40.
PRIMROSE BEAUTY. Yellow form of Cheerfulness. Cluster of double florets of uniform chartreuse yellow.....	2.70	25.
Twink. Sulphur yellow with center petals of orange.....	1.60	14.

TRIANDRUS HYBRID NARCISSI

Elizabeth Prentice. Delicate snow-white perianth and cup. Not too large for rock garden.....	2.00	18.
Laurentia. Three to five snow-white florets of very large individual size.....	2.00	18.
Moonshine. Cluster-flowering with rich, creamy white florets of great substance.....	2.00	18.
Pearly Queen. Two to three florets with white perianths and large ivory cups.....	2.00	18.
SILVER CHIMES. Five to seven broad florets of rich creamy white.....	3.00	27.
THALIA. Pure white florets with reflexing petals. Tall, fragrant, cluster-flowering.....	1.80	16.

CYCLAMINEUS HYBRID NARCISSI

Beryl. (Turn a' penny) Broad, recurved petals of creamy yellow, with golden yellow cup thinly edged red.....	1.50	13.
February Gold. Deep golden perianth with recurved petals and even deeper yellow crown. Extremely early.....	1.70	15.

JONQUILLA HYBRID NARCISSI

GOLDEN PERFECTION. Huge florets of golden yellow, generally borne in pairs on tall stem. Handsome and very robust.....	1.20	10.
Golden Sceptre. Very free-flowering variety of bright golden yellow. Large clusters of yellow blossoms hang from tall, straight stems. Very long blooming period.....	1.00	9.
Orange Queen. Five to eight deep yellow florets.....	1.00	9.
Trevithian. Tall flower with clusters of clear lemon-yellow florets.....	1.00	9.

POETAZ NARCISSI

Geranium. Many florets, white with cherry centers. Grows well in pebbles and water if started in late November.....	1.30	11.
Halvoze. Many florets with soft primrose perianth and cup of deeper yellow.....	1.30	11.
La Fiancee. Clusters of florets with white petals and bright orange cups.....	1.40	12.

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POETAZ NARCISSI (Continued)

	Per <u>10</u>	Per <u>100</u>
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Laurens Koster. Thick clusters of creamy white florets with bright yellow cups.....	\$1.20	\$10.
MARTHA WASHINGTON. Cluster-flowering with two to three full-sized florets, each white with red-rimmed yellow cup.....	2.50	22.
ORANGEBOVEN. Heavy cluster of individually large florets, white with bright orange-red centers.....	2.00	18.
RED GUARD. Three to four florets, each of large size, with deep primrose perianth and vivid red cup.....	1.40	12.
Scarlet Gem. Thick clusters of florets with golden yellow perianths and orange-red centers.....	1.30	11.

POETICUS NARCISSI

Actaea. Clear white perianth with bright, red-rimmed eye.....	1.30	11.
Crenver. Broad, overlapping, gleaming white perianth with flat, red-rimmed eye.....	1.40	12.
Recurvus. Sharply reflexed white petals frame small, red-rimmed eye. Very late.....	1.30	11.

SPECIES NARCISSI (MINIATURES)

Bulbocodium Conspicuum. Miniature hoop-petticoat daffodil. Yellow...	1.00	9.
Canaliculatus. Clusters of tiny florets, white with yellow centers. Very fragrant.....	1.00	9.
Cyclamineus. Bright golden petals fully recurved with small gold cup.....	1.60	14.
Minimus (Trumpet). Perfect golden yellow miniature trumpet. Early...	1.60	14.
Nanus. Small, golden yellow trumpet.....	1.60	14.
Simplex (Jonquilla). Single sweet jonquil. Uniform yellow perianth and cup. Tiny, very fragrant flower.....	.80	7.
Triandrus Albus (Angels Tears). Very tiny flower of pure white. Reflexed petals frame small cup. Early.....	1.00	9.

HYACINTHS

Arentine Arendsen. Snow white.....	2.50	22.
City of Haarlem. Creamy primrose.....	2.50	22.
COTE D'AZUR. Clear tone of azure-blue.....	Each \$1.00	
Crown Princess Margaret. Soft rose pink.....	2.50	22.
CYCLOPS. Novelty. Deep velvety red.....	4.00	35.
Dr. Strelsemann. Soft blue with lighter shading.....	2.50	22.
Duke of Westminster. Rich, dark blue.....	2.50	22.
FLUSHING. Novelty. Clear light rose-pink.....	4.00	35.
GENERAL EISENHOWER. Deep royal purple.....	8.50	75.
Grand Maitre. Deep lavender-blue.....	2.50	22.
GYPSEY QUEEN. Novelty. Soft apricot-rose.....	Each \$1.00	
IRON DUKE. Novelty. Warm rose-pink.....	4.00	35.

that the U.S. has been able to do so much to help the people of Vietnam. We have been able to do this because we have been able to keep our promises to the Vietnamese people. We have been able to do this because we have been able to keep our promises to the Vietnamese people. We have been able to do this because we have been able to keep our promises to the Vietnamese people. We have been able to do this because we have been able to keep our promises to the Vietnamese people.

(SECRET) - SECURITY INFORMATION

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HYACINTHS (Continued)

	Per 10	Per 100
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Jan Bos. Deep carmine-rose.....	\$2.50	\$22.
Lady Darby. Pale rose.....	2.50	22.
L'Innocence. Pure white.....	2.50	22.
Marie. Very dark blue-purple.....	2.50	22.
MOONLIGHT. Novelty. Clear lemon yellow.....	6.00	55.
Myosotis. Light blue, shaded porcelain.....	2.50	22.
NEVADA. Pure, gleaming white.....	Each \$1.50	
Oranjeboven. Soft apricot-salmon, shaded pink.....	2.50	22.
Perle Brillante. Light blue with tone of lilac.....	2.50	22.
Pink Pearl. Warm rose.....	2.50	22.
Prince Henry. Soft primrose.....	2.50	22.
Rosalie. Small flower. Pale rose. Very early. Can be grown indoors in pebbles and water like Paperwhite Narcissi.....	2.00	18.
SAPPHIRE. Novelty. Clear sapphire-blue shaded lilac.....	7.00	65.
Huge spike.....	7.00	65.
VIOLA. Novelty. Deep indigo-blue.....	7.00	65.
VISTULA. Novelty. Enormous spike of clear azure-blue.....	7.00	65.
Mixed hyacinths.....	2.50	22.

CROCUSESVernus:

Excelsior. Lilac, shaded blue. Large flower.....	.70	6.
Kathleen Parlow. Pure white with orange anthers.....	.80	7.
Mammoth Yellow. Deep golden yellow.....	.80	7.
Mikado. White striped mauve. Huge.....	.70	6.
Purpurea Grandiflora. Dark, velvety purple.....	.70	6.
Remembrance. Lilac-blue.....	.70	6.
Striped Beauty. White, striped purple.....	.70	6.
Mixed Crocuses. Above varieties, top size bulbs only.....	\$55.00 per 1,000	6.

Species. Spring-flowering:

E. A. Bowles. Creamy yellow.....	.80	7.
E. P. Bowles. Canary yellow.....	.80	7.
Etruscus. Mauve.....	.70	6.
Sieberi. Violet-blue.....	.70	6.
Susianus. (Cloth of Gold). Deep yellow. Very early.....	.70	6.
Tomasinianus. Pale lavender. Very early.....	.50	4.

Species. Fall-flowering: August 1953 delivery

Asturicus. Dark violet.....	.80	7.
Sativus. Pure lavender.....	.60	5.
Speciosus. Deep blue.....	.60	5.
Speciosus Albus. Pure white.....	.70	6.
Zonatus. Lilac-blue.....	.60	5.
Mixed. Above varieties. Top size bulbs. \$45.00 per 1,000.....	.60	5.

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Geometric Morphometric

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COLCHICUMS
Fall-flowering, August 1953 Delivery

	Per 10	Per 100
Autumnale. Lilac-rose.....	\$2.00	\$18.
Autumnale Album. Pure white.....	2.00	18.
The Giant. Large flowers of warm rosy lilac.....	2.70	25.
Violet Queen. Deep violet.....	4.00	35.

STERNBERGIA
Fall-flowering, August 1953 Delivery

Lutea. Golden yellow. "The yellow autumn crocus.".....	4.00	35.
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CYCLAMEN
Fall-flowering, August 1953 Delivery

Neapolitanum. The wild cyclamen. Light pink.....	7.00	65.
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CAMASSIA

Leichtlini. Tall, graceful spikes of blue bells. May-flowering....	1.30	11.
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CHIONODOXA

Gigantea. Porcelain blue.....	.50	4.
Luciliae Coerulea. Bright blue with white center. \$27.50 per 1,000	.40	3.
Sardensis. Deep blue with white center. \$27.50 per 1,000.....	.40	3.

ERANTHIS (Winter Aconite)

Cilicicus. Primrose. \$47.50 per 1,000.....	.60	5.
Hyemalis. Warm yellow. \$47.50 per 1,000.....	.60	5.

ERYTHRONIUM (Dogtooth Violet)

Californicum. Cream.....	1.40	12.
Californicum Bicolor. Yellow and cream. Fragrant.....	1.40	12.
Hendersonii. Rosy lavender.....	1.40	12.
Tuolumnensis. Very large primrose yellow.....	1.40	12.
Mixed.....	1.20	10.

FRITILLARIA IMPERIALIS (Crown Imperial)

Aurore. Vivid orange-red.....	8.50	75.
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PERIODIC
SOLAR CYCLES
AND THE
EARTH'S CLIMATE

THE EVIDENCE FOR A 22-YEAR CYCLE IN CLIMATE AND ITS POSSIBLE
EXPLANATION BY THE EARTH'S ROTATIONAL CYCLE

BY R. H. DUNN, JR., DEPARTMENT OF PHYSICS, UNIVERSITY OF TORONTO, TORONTO,
ONTARIO, CANADA, AND J. R. COOPER, DEPARTMENT OF PHYSICS, UNIVERSITY OF TORONTO,
TORONTO, ONTARIO, CANADA

RECEIVED JULY 10, 1967; REVISED SEPTEMBER 10, 1967; ACCEPTED SEPTEMBER 10, 1967

ABSTRACT

The evidence for a 22-year periodicity in climate is presented. The evidence is based on the analysis of the mean annual temperature for the period 1850-1960.

INTRODUCTION

The evidence for a 22-year periodicity in climate is presented. The evidence is based on the analysis of the mean annual temperature for the period 1850-1960.

DATA AND METHODS

The data used in this study were obtained from the Climatic Atlas of the World (1951) and the Climatic Atlas of North America (1951).

ANALYSIS OF THE DATA

The data were analyzed by the method of least squares. The results of the analysis are shown in Table I. The results show that there is a significant correlation between the mean annual temperature and the solar cycle. The correlation coefficient is approximately 0.65. The correlation is significant at the 0.01 level.

DISCUSSION AND CONCLUSION

The results of this study indicate that there is a significant correlation between the mean annual temperature and the solar cycle.

	<u>FRITILLARIA MELEAGRIS</u> (Guinea-Hen Lily)	Per 10	Per 100
Alba.	Creamy white bells.....	.50	\$6.
Mixed.	Mottled cinnamon-brown and purple. \$47.50 per 1,000.....	.50	5.

GALANTHUS (Snowdrop)

Elwesi.	Large bells of snow white. Likes sun.....	.70	5.
Nivalis.	Clusters of white bells. Very early. \$37.50 per 1,000.....	.50	4.
Nivalis Double.	Clusters of double white bells.....	.70	7.

BULBOUS IRIS

Reticulata.	Low, fragrant, blue-purple with yellow markings.....	.50	5.
<u>Dutch Iris:</u>			
Blue Horizon.	Light blue.....	1.00	9.
Imperator.	Violet-blue.....	1.00	9.
White Excelsior	Pure white.....	1.20	10.
Yellow Queen.	Deep chrome.....	1.20	10.
Mixed.	1.00	9.

LEUCOJUM (Snowflake)

Aestivum.	Summer snowflake. Tall, green-tipped, white bells.		
	Late April-flowering.....	1.40	12.

MUSCARI (Grape Hyacinths)

Armeniacum.	Cobalt-blue.....	\$27.50 per 1,000	.40	3.
Azureum.	Light, lavender-blue. Very early.....	.50	4.	
Botryoides Album.	White.....	.60	5.	
Plumosum. (Feather Hyacinth).	Lavender blue, feathery truss.....	.90	8.	

PUSCHKINIA SCILLOIDES (Striped Squill)

Libanotica.	Small spike of grey-blue bells with mid-vein of deep blue. April-flowering.....	.40	3.
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SCILLA

Bifolia.	Light blue. Very early.....	.50	4.
Campanulata Alba Maxima.	White Wood Hyacinth.....	.50	4.
Campanulata Blue Bird.	Cobalt blue.....	.60	5.
Campanulata Blue Queen.	Light blue.....	.50	4.
Campanulata Blue Ribbon.	New dark blue.....	.60	5.
Campanulata Excelsior.	Porcelain blue Wood Hyacinth.....	.50	4.

CHAPTER IV THEORY OF THE CLOUD

THEORY OF THE CLOUD. - The theory of the cloud is based upon the assumption that the droplets are spherical and that they are suspended in air at a temperature which is constant throughout the cloud.

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SCILLA (Continued)

	Per 10	Per 100
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Campanulata Heavenly Blue. Clear light blue.....	.60	\$5.
Campanulata L'Immaculee. Heavy spikes of snow white bells.....	.70	6.
Campanulata Princess Juliana. Bright lilac-rose.....	.70	6.
Campanulata Queen of the Pinks. Tall lilac-rose.....	.60	5.
Campanulata Rheinlander. Free-flowering deep blue.....	.70	6.
Campanulata Rosabella. True light rose-pink.....	.70	6.
Campanulata Rose Queen. Pink Wood Hyacinth.....	.50	4.
Nutans Coerulea. (English Bluebell). Lavender blue.....	.50	4.
Nutans Rosea. Pink English Bluebell.....	.50	4.
Sibirica Alba. White squill.....	.60	5.
Sibirica Azurea. Light blue squill.....	.60	5.
Sibirica Spring Beauty. Bright blue. Large flowered blue squill.....	.60	5.

TRITELIA

Uniflora. Attractive spike of star-shaped, light blue bells April-flowering.....	.40	3.
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LILIES

Auratum. Gold-banded lily of Japan. Fragrant. White with gold stripe in center of petals. July-flowering.....	8.50	75.
Candidum (Madonna Lily). Fragrant, pure white trumpets June-flowering. September delivery. Top size.....	6.00	55.
Candidum. Cascade Hybrids. A new hardy strain. American grown. Disease resistant.....	7.00	65.
Centifolium Olympio Hybrids. A vigorous lily of part Regale parent- age. Recommended instead of Regale. White trumpets with brown- ish or purple exteriors, cream center. Late June-flowering.....	6.00	55.
Formosanum. Late variety. White lily resembling Regal Lily in color and form, but blooming in late summer and early autumn. Tall-stemmed. September-flowering. Late November delivery.....	5.00	45.
Speciosum Album. White form of speciosum. Pure white with rich maroon anthers. August-flowering. November delivery.....	Each \$1.00	
Speciosum Rubrum. Red spotted on background of white. Maroon anthers. August-flowering. November delivery.....	8.50	75.
Testaceum. Blend of apricot and beige. Most beautiful lily in existence. June-flowering. October delivery.....	Each \$1.75	
Umbellatum. Clusters of erect brick-orange flowers borne on three-foot stems. May-flowering. October delivery.....	6.00	55.

WOODLAND PLANTS AND BULBS. WILD FLOWERSAQUATIC AND BOG PLANTS

Caltha Palustris. Marsh Marigold. Beautiful yellow flowers on six to twelve-inch stem. Late April to June bloom.....	2.70	25.
Nymphaea Odorata. American Waterlily. Sweet-scented. June-July blooms.....	4.00	35.

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<u>WILD FLOWERS AND WOODLAND BULBS</u>	Per <u>10</u>	Per <u>100</u>
Arisaema Triphyllum. Jack-in-the-Pulpit. One to two feet tall. Easily transplanted. Blooms April to June.....	2.70	25.
Asclepias Tuberosa. Butterfly Weed. Gorgeous umbels of orange-yellow flowers on branching stems two feet tall. For meadow, or perennial garden. July-flowering.....	4.00	35.
CYPRIPEDIUM (Ladyslipper):		
Acaule. Pink Moccasin Flower. All pink ladyslipper. Likes acid soil. May-flowering.....	5.00	45.
Pubescens. Yellow Ladyslipper. Bright yellow deepening to brown at back. May-flowering.....	5.00	45.
Spectabile. Show Ladyslipper. Large pink and white flowers lasting when cut. May-flowering.....	5.00	45.
Dicentra Cucullaria. Dutchmans Breeches. Fragrant white flowers on six-inch racemes. Fern-like foliage. Fine for cutting. April to May blooming.....	2.70	25.
Dicentra Eximia. Fringed Bleedingheart. Pink and white flowers on slender stems rising from feathery foliage. Invaluable woodland plant. Flowers in May and June.....	5.00	45.
Dicentra Spectabilis. Bleedingheart. Extra heavy roots.....	9.00	85.
Epigaea Repens. Trailing Arbutus. Fragrant pink and white flowers are found among heavy green foliage. April blooming. Large sods.....	6.00	55.
Iris Cristata. Crested Iris. Sky-blue flowers rise four to six inches from soil. Naturalizes in open shade. May flowering.....	5.00	45.
Lilium Canadense. Nodding trumpets of bright yellow and orange freely borne on three to four-foot stems. June to July blooms.....	4.00	35.
Lilium Philadelphicum. Orange-red flowers on three-foot stalks. June to July blooms.....	5.00	45.
Lilium Superbum. American Turkscap Lily. Orange-scarlet flowers on six-foot stems. July-flowering.....	5.00	45.
Lobelia Cardinalis. Cardinal Flower. Long spikes of dazzling red flowers on two-foot stems. Naturalizes in moist banks of streams. July to August blooms.....	3.00	27.
Mertensia. Virginica. Virginia Bluebell. Panicles of porcelain bluebells, tipped pink as they open. Indispensable with daffodils.....	2.50	22.
Phlox Divaricata. Blue Phlox. Lavender blue flowers in May. Clumps.....	4.00	35.
Sanguinaria Canadensis. Bloodroot. White daisy-like flower with large green leaves which last through summer. April-flowering.....	1.80	16.
TRILLIUM. Wake Robin. Three-leaved Nightshade:		
Erectum. Purple-red. April to May flowering.....	\$2.20	\$20.
Grandiflorum. Large white. Fine for naturalizing. April to May blooms.....	1.80	16.
Stylosum. Rose Trillium. April to May blooms.....	3.30	30.

WILD FLOWERS AND WOODLAND BULBS (Continued)

	Per <u>10</u>	Per <u>100</u>
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VIOLA:

Blanda. Sweet White violet. May-flowering.....	2.70	25.
Pedata. Bi-color. Birdsfoot violet. May-flowering.....	4.00	35.
Pubescens. Downy yellow violet.....	3.00	25.

BULBS FOR INDOORS

Amaryllis. New Dutch Hybrids. Huge, fragrant, wide-open trumpets. Easily grown. Wonderful Christmas gifts.

White.....	Each \$3.25	
Red.....	Each 3.00	
Light pink.....	Each 3.00	
Amaryllis. (Domestic Hybrids). Mixed Each 75¢.....	7.00	65.
Anemone. Blue Poppy.....	1.40	12.
Anemone. His Excellency. Scarlet.....	1.40	12.
Anemone. The Bride. White.....	1.40	12.
Bletilla Hyacintha. Chinese orchid. Purple spikes.....	8.00	75.
Freesia. Appleblossom. Delicate pink.....	2.00	18.
Freesia. Bronze Giant. Copper and bronze.....	2.00	18.
Freesia. Snowstorm. Pure white.....	2.00	18.
Hyacinth Rosalie. Light pink. Grows in pebbles and water.....	2.00	18.
Iris Wedgewood. True bright blue (For other irises see page 17)....	1.40	12.
Narcissus Paperwhite. White clusters. Readily grown in pebbles and water. No. 1 bulbs.....	1.60	14.
No. 2 bulbs.....	1.40	12.
Narcissus Soleil D'Or. Fragrant yellow florets with orange centers. Will also grow in pebbles and water.....	2.00	18.
Ornithogalum. Arabicum. Large spike of white florets with black centers.....	1.40	12.
Ranunculus. Giant Hybrids Mixed.....	1.70	15.
Roman Hyacinths: Easily grown in pebbles and water White.....	3.00	27.
Pink.....	2.00	18.
Blue.....	1.70	15.
Veltheimia Viridifolia. A handsome plant with reddish tubular flowers.....	8.00	75.

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REFERENCES AND NOTES